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- **Kreft, Norbert**
Ann Arbor, MI 48105 (US)
- **Schindler, Wolfgang, Dr.**
8043 Graz (AT)
- **Marek, Gerald**
Ann Arbor, MI 48108 (US)

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(74) Representative: **Babeluk, Michael, Dipl.-Ing. Mag.
Patentanwalt
Mariahilfer Gürtel 39/17
1150 Wien (AT)**

(71) Applicant: **AVL List GmbH
8020 Graz (AT)**

(72) Inventors:
• **Silvis, William Martin**
Ann Arbor, MI 48105 (US)

(54) **Active pulsation cancellation device for diesel particulate sampling systems**

(57) The present invention relates to a particulate sampler (10) for conveying exhaust gas from exhaust gas source to analysis equipment, said particulate sampler comprising:

- a probe (14) for receiving the exhaust gas;
- a transfer tube (12) for conveying the exhaust gas from a tailpipe (13) to a mixer (16), said mixer (16) mixing the exhaust gas and a dilution gas; and
- a dilution tunnel (18) for mixing and conveying the exhaust gas and dilution gas from said mixer (16) to analysis equipment.

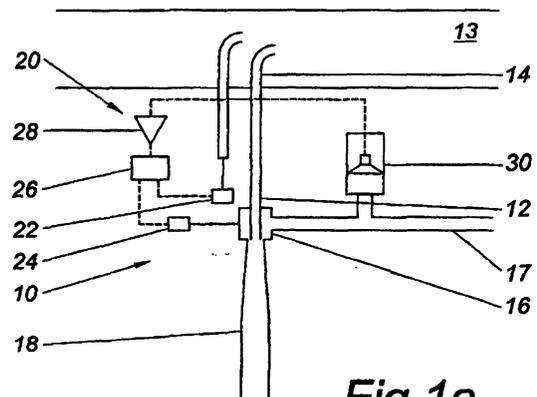


Fig.1a

In order to minimize the effects of pressure fluctuations said particulate sampler further comprises

- a flow pulsation cancellation device (20) in communication with at least one of said tailpipe (13), probe (14), transfer tube (12), mixer (16), and a dilution tunnel (18) for introducing a canceling pressure pulse to minimize the effects of pressures pulses present within the tailpipe (13).



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EUROPEAN SEARCH REPORT

Application Number
EP 02 45 0084

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Place of search		Date of completion of the search	Examiner
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X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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